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### CLAIMS

1. A radiator comprising a substrate, an amorphous carbon layer and a metallic carbide-forming layer interposed between the substrate and amorphous carbon layer.
- 5 2. The radiator of claim 1, wherein the metallic carbide-forming layer comprises titanium.
- 10 3. The radiator of claim 1 or claim 2, wherein the amorphous carbon layer and/or the titanium layer has a thickness in the range of 0.1 micrometres to 1.0 micrometres.
- 15 4. The radiator of any preceding claim, wherein the amorphous carbon layer is protected by a protective layer.
5. The radiator of claim 4, wherein the protective layer is substantially transparent to infrared radiation.
- 20 6. The radiator of claim 5, wherein the protective layer comprises at least one of SiC, SiO<sub>2</sub>, diamond and diamond-like carbon.
- 25 7. A method of making a radiator comprising the steps of forming a metallic carbide-forming layer on a substrate and forming an amorphous carbon layer on the metallic carbide-forming layer.
8. The method of claim 7, wherein the amorphous carbon layer and/or the metallic carbide forming layer is formed by sputter deposition or evaporation.

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9. The method of claim 7 or 8, further comprising the step of forming a protective layer on top of the amorphous carbon layer.
- 5 10. The method of any of claims 7 to 9, wherein the radiator is annealed after the steps of forming the metallic carbide-forming and amorphous carbon layers.
- 10 11. A radiator substantially as herein described with reference to the accompanying drawings.
12. A method of making a radiator substantially as herein described with reference to the accompanying drawings.